

FEDERAL BUREAU OF INVESTIGATION  
FOI/PA  
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FOI/PA# 1173422-1

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February 19, 1947

RECORDED 105-17581-X  
62-79499-63

*Handwritten signature*

Honorable George C. Marshall  
Secretary of State  
State Department  
Washington, D. C.

*Personally delivered  
2/21/47*

My dear General Marshall:

Reference is made to your request of February 7, 1947, asking that I designate a Special Agent for an assignment of approximately three months to the United States Delegation at the Council of Foreign Ministers in Moscow, USSR. I am pleased to inform you that Special Agent John M. Matter has been designated for this assignment. Special Agent Matter is an experienced and thoroughly qualified communications technician. Arrangements are being perfected for his immediate departure to Moscow.

With assurances of my highest regards,

Sincerely yours,

Mr. Tolson \_\_\_\_\_  
Mr. E. A. Tamm \_\_\_\_\_  
Mr. Clegg \_\_\_\_\_  
Mr. Coffey \_\_\_\_\_ FPG:OME  
Mr. Glavin \_\_\_\_\_  
Mr. Ladd \_\_\_\_\_  
Mr. Nichols \_\_\_\_\_  
Mr. Rosen \_\_\_\_\_  
Mr. Tracy \_\_\_\_\_  
Mr. Carson \_\_\_\_\_  
Mr. Harbo \_\_\_\_\_  
Mr. Hendon \_\_\_\_\_  
Mr. McGuire \_\_\_\_\_  
Mr. Mumford \_\_\_\_\_  
Mr. Piper \_\_\_\_\_  
Mr. Quinn Tamm \_\_\_\_\_  
Mr. Nease \_\_\_\_\_  
Miss Gandy \_\_\_\_\_

*Handwritten initials: J62*

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U.S. DEPT. OF JUSTICE

*Handwritten initials: JH*

4 APR 8 1947

## Office Memorandum • UNITED STATES GOVERNMENT

TO : THE DIRECTOR

DATE: February 11, 1947

FROM : D. M. Ladd

SUBJECT: Request of Secretary of State Marshall for  
~~Assignment of Bureau Technician to Conduct~~  
~~Security Survey at Moscow~~Social Microphone Installations In The  
U.S. Embassy, Moscow

Mr. Tolson	
Mr. E. A. Tamm	
Mr. Clegg	
Mr. Glavin	
Mr. Ladd	
Mr. Nichols	
Mr. Rosen	
Mr. Tracy	
Mr. Carson	
Mr. Egan	
Mr. Gurnea	
Mr. Harbo	
Mr. Hendon	
Mr. Pennington	
Mr. Quinn Tamm	
Tele. Room	
Mr. Nease	
Miss Beahm	
Miss Gandy	

There is attached a letter to you from Secretary of State Marshall, requesting that the Bureau assign on special assignment for a period of approximately three months a technician to conduct a security survey of headquarters to be used at the forthcoming Council of Foreign Ministers in Moscow on March 10, 1947.

Secretary Marshall has asked for the services of a communications technician to inspect the telephone system, rooms and offices to be occupied by the United States Delegation. The Bureau representative would accompany a representative of the Security Office of the State Department and would leave Washington on or about February 26, 1947.

## RECOMMENDATION:

It is recommended that the request of the Secretary be declined. It is not thought we can send a man on such a mission because of our critical shortage of personnel for our domestic responsibilities. I might also point out that under the present setup, such a mission is the responsibility of CIG. Also, you will recall we were recently advised [redacted]

b7D

If you approve, there is attached a suggested letter to Secretary Marshall.

Attachments

RRR:OME  
JKM:MJJDETACHED  
AND HELD  
EOL

105-19581-X11

62-77477-61

F B I  
19 MAR 31 1947

## NOTE

BY THE ASSIGNMENT OF ONE MAN, THE BUREAU WOULD OBVIOUSLY NOT WANT TO ASSUME ANY RESPONSIBILITY HERE. IT WOULD TAKE A SIZEABLE STAFF TO EFFECT ANY SECURITY UNDER THE CIRCUMSTANCES PREVAILING IN MOSCOW.

JKM

54 APR 8 1947  
3  
Director  
2/11/47  
EOL

Mr. Tolson ✓  
 Mr. E. A. Tamm ✓  
 Mr. Clegg ✓  
 Mr. Glavin ✓  
 Mr. Ladd ✓  
 Mr. Nichols ✓  
 Mr. Rosen ✓  
 Mr. Tracy ✓  
 Mr. Carson ✓  
 Mr. Egan ✓  
 Mr. Gurnea ✓  
 Mr. Harbo ✓  
 Mr. Hendon ✓  
 Mr. Pennington ✓  
 Mr. Quinn Tamm ✓  
 Mr. Nease ✓  
 Miss Gandy ✓

February 11, 1947

## MEMORANDUM FOR THE DIRECTOR

Re: REQUEST OF SECRETARY OF STATE MARSHALL  
FOR ASSIGNMENT OF BUREAU TECHNICIAN TO  
CONDUCT SECURITY SURVEY AT MOSCOW

While I am reluctant to recommend approval of the attached assignment involving the sending of a man to Moscow to conduct a security survey, I believe that under the terms of our appropriation we have no choice in this matter and must accede to it in the light of the Secretary's request. Collaterally, [REDACTED]

b7D

[REDACTED] I think consequently that we must agree to this assignment.

This being the second situation in the past week where we have had to comply with a State Department request about which we were not too enthusiastic, I think we have to give consideration at this time to the question of whether we desire to reword the provisions of the Appropriation Act to eliminate the proviso for investigations requested by the Secretary of State. This involves fundamentally weighing the benefits between the advantages of such a provision and the responsibilities attached to this provision. It seems to me, in the light of the present greatly unsettled situation relative to world-wide intelligence, that it is to our advantage to continue this phraseology in our appropriation through the current year since probably the advantages of this provision will outweigh the disadvantages.

I think we should make the survey. I am opposed to

Respectfully,

EDW. A. TAMM

Attachment  
 EAT:ml

change in appin  
 2/12

54 APR 8 1947

THIS MEMORANDUM IS FOR ADMINISTRATIVE PURPOSES  
 TO BE DESTROYED AFTER ACTION IS TAKEN AND NOT SENT TO FILES

Soviet Microphone Installations in  
 the U.S. Embassy, Moscow

105-19581-X2  
 162-72477-62  
 MAR 31 1947

I concur. It should be a mature agent who could do the technical job & also keep his eyes open.

Soviet Mission in Washington  
United States Embassy, Moscow

Moscow, U.S.S.R.  
March 15, 1947

Director  
Federal Bureau of Investigation  
Washington, D.C.

Dear sir:

Upon arrival at the Moscow military airport on Feb. 28, 1947, Russian authorities boarded the plane and required that we surrender our passports before we left the plane. Transportation to the National Hotel was provided by Intourist. Since the Moscow Hotel, in which all the delegations were to be housed, was still in the process of renovation, a six day stay at the National was necessary. The latter hotel was also in the process of renovation. By Friday, March 7, the Moscow was opened, but on registering it was again required that the passports be surrendered. On March 15, the passports were again collected inasmuch as it was discovered that the Russian Foreign Office had not passed on them since our arrival.

The National is a fourth rate hotel at the best. The Moscow is second rate by our standards. It is interesting to note that the waiters were wearing plain white jackets prior to the arrival of the main bodies of the delegations. They now are garbed in tuxedos, ill fitting for the most part.

The people on the streets are warmly dressed in most cases, although shabbiness is much in evidence and several layers of thin clothing are often seen instead of one or two heavy garments. There is little laughter or other signs of happiness. Most faces are grim. Some shoes and leather boots are to be seen, but the most common foot apparel is the high-top wool felt boot. It is not difficult to spot those who have money, since their wool or fur coats stand out in vivid contrast to the shabby black ones worn by the vast majority.

The food situation is acute. Strict rationing prevails for all, but those who have money can buy almost any item on the open market, provided they are willing to pay the price. For example, ten rationed eggs sell for about \$0.85. In the same store under government sanction, unrationed eggs sell for \$0.80 each. Soap is virtually unobtainable. The food ration of the Ambassador is so short that he finds it necessary to bring food in from Berlin to maintain a well balanced diet. His monthly egg ration is 10 eggs. In order to avoid paying the open market prices, he is keeping 25 chickens in the Embassy residence yard. Now that he has the chickens, though, he is having extreme difficulty in obtaining chicken feed.

The food at the Hotel is good, but the portions are very small. All members of the delegation have ration books, and must surrender the proper ticket for each particular meal. At the regular rate of exchange, 5 to 1, the meals would cost approximately \$13.00 per day. At the diplomatic rate, 12 to 1, we are paying about \$6.00.

Mr. Tolson  
Mr. E. A. Tamm  
Mr. Clegg  
Mr. Glavin  
Mr. Ladd  
Mr. Nichols  
Mr. Rosen  
Mr. Tracy  
Mr. Carson  
Mr. Egan  
Mr. Hendon  
Mr. Pennington  
Mr. Quinn  
Mr. Nease  
Mr. Gandy

"JUNE"

RECORDED

EX-17 31 APR 18 1947

COPY FILED IN 100-104444-106

EO 11

7



To date, the writer has completed the technical check of the Ambassador's office and of 12 rooms at the Embassy residence. It was possible to complete the check on all rooms to be used as offices before the delegation arrived, and also the bedroom now occupied by the Secretary of State. No microphones have been discovered. One phone was found to be wired, so that the microphone in the earpiece could be used when the phone was not in use. An examination of the wiring indicates, however, that the extra wire used to jump the switch was installed at the factory. The sensitivity of the microphones in both the earpiece and the mouthpiece is poor in comparison to those of the Western Electric instruments. The earpiece microphone is of the magnetic type, while that in the mouthpiece is of the carbon type. The carbon particles in the microphone are packed so loosely that when the handpiece is on the cradle, the microphone will not function, thus eliminating its use when the phone is not in use.

In the attic, the writer discovered approximately 60 feet of extremely fine, cotton-insulated wire characteristically used in installations where concealment of the wire is essential. About 9 feet of this wire was concealed in the dirt of the sub-roof, and led to a hollow space in the wall and ceiling above the room formerly occupied as an office by former Ambassador Davies, and now occupied by Mrs. W.B. Smith as a bedroom. A hole just large enough to permit an average-sized man to squeeze through had been cut through the 4-inch concrete sub-roof which is covered with dirt. The remainder of the wire was found in the hollow space which is about 18'x 2'x 3'. A thorough search failed to reveal any microphone. While the building is a regular maze of old telephone, buzzer and power wires, no other indication of surveillances has been found.

The writer arranged to talk to [redacted]

[redacted]

As to the Conference, the usual Russian snags have been encountered. No concrete progress has been made to date. The general opinion is that it will last about one month.

Snow removal in Moscow is little short of amazing. It has snowed all except three days since the arrival of the writer, and yet the main streets are dry. This is accomplished by the use of hundreds of women, boys, and older men. They scrape, sweep and shovel the snow into the gutters. Then the snow is shoveled into trucks and hauled away. They are at their task shortly after the snow starts falling, regardless of the time of day, and keep at it until all snow is removed. One sidelight of this snow removal is the fact that the writer has not observed a single car equipped with chains.

Very truly yours,

*John M. Matter*

John M. Matter  
Special Agent

# FEDERAL BUREAU OF INVESTIGATION

1947

✓ The Director \_\_\_\_\_ Records Section  
 Mr. Tolson \_\_\_\_\_ Personnel Files  
 Mr. Ladd \_\_\_\_\_ Send File  
 Mr. Rosen \_\_\_\_\_ Bring file up-  
 Mr. Clegg \_\_\_\_\_ to-date  
 Mr. Glavin \_\_\_\_\_ Search, serial-  
 Mr. Nichols \_\_\_\_\_ ize, and route  
 Mr. Tracy \_\_\_\_\_ Reading Room  
 Mr. Harbo \_\_\_\_\_ Mechanical Section  
 Mr. Hendon \_\_\_\_\_ Bureau Supply Section  
 Mr. Pennington \_\_\_\_\_ Mail Room  
 Mr. Quinn Tamm \_\_\_\_\_  
 Mr. Nease \_\_\_\_\_  
 Mr. Coyne \_\_\_\_\_  
 Miss Gandy \_\_\_\_\_  
 Mr. Carson \_\_\_\_\_  
 Mr. Pennington \_\_\_\_\_ Call me re this  
 Mr. Quinn Tamm \_\_\_\_\_ Note and return  
 Mr. Nease \_\_\_\_\_  
 Miss Gandy \_\_\_\_\_  
 Miss Gray \_\_\_\_\_ Stamp and mail  
 Miss Lyon \_\_\_\_\_ Prepare tickler  
 Miss Butcher \_\_\_\_\_ Call these files

Mr. E. A. Tamm  
 Mr. Clegg  
 Mr. Ladd  
 Mr. Nichols  
 Mr. Rosen  
 Mr. Tracy  
 Mr. Harbo  
 Mr. Hendon  
 Mr. Pennington  
 Mr. Quinn Tamm  
 Mr. Nease  
 Miss Gandy

APR 12 1947  
 CONRAD

See Me

Edward A. Tamm

5734

*Soviet Microphone Installations  
in the United States Embassy, Moscow*



Moscow, U.S.S.R.  
April 2, 1947

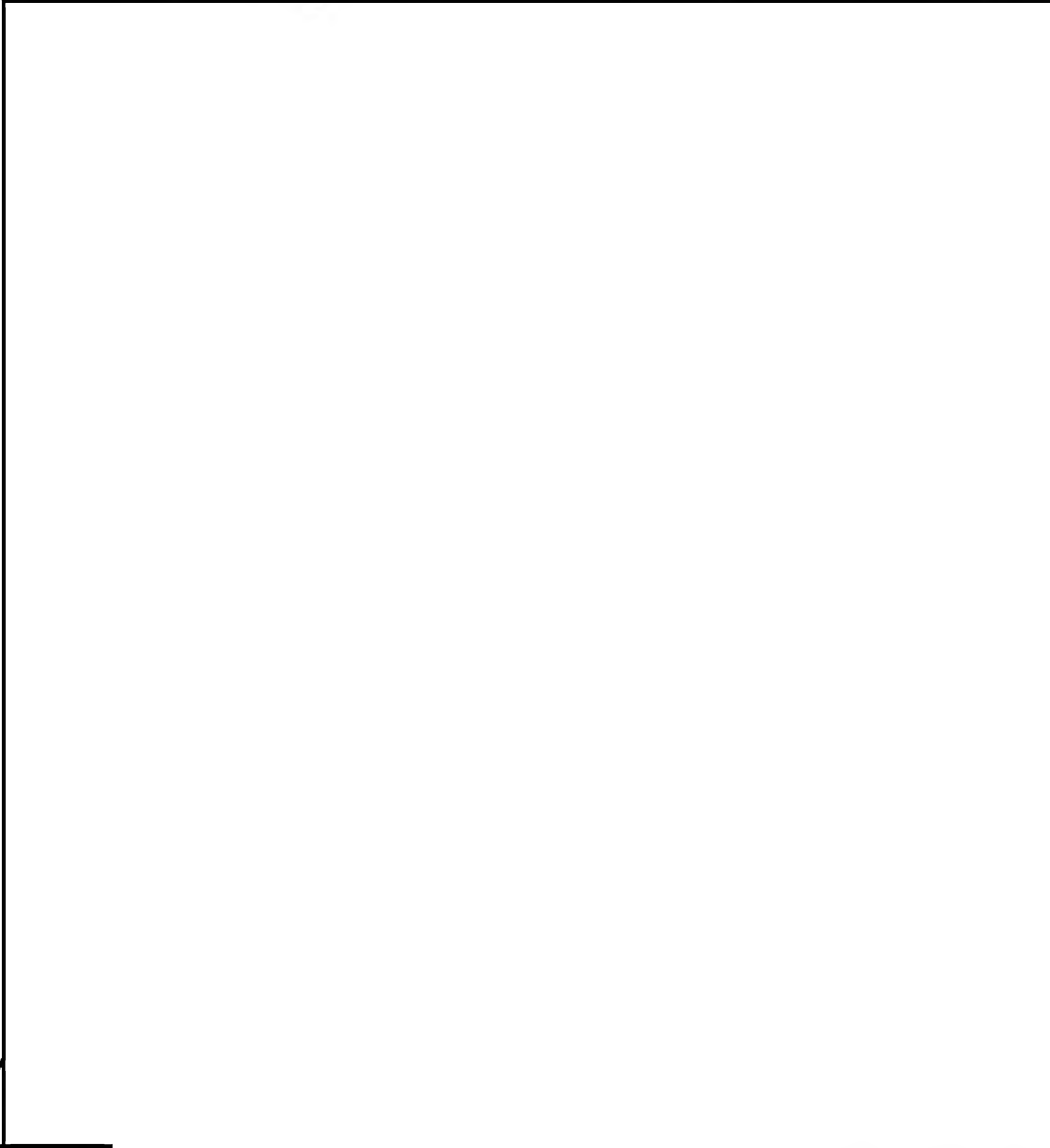
Director  
Federal Bureau of Investigation  
Washington, D.C.

" JUNE "

Mr. Tolson.....  
Mr. E. A. Tamm.....  
Mr. Clegg.....  
Mr. Coffey.....  
Mr. Glavin.....  
Mr. Ladd.....  
Mr. Nichols.....  
Mr. Rosen.....  
Mr. Tracy.....  
Mr. Carson.....  
Mr. Egan.....  
Mr. Hendon.....  
Mr. Pennington.....  
Mr. Quinn Tamm.....  
Mr. Nease.....  
Miss Gandy.....

Dear sir:

Though no copies are yet available in Moscow, it is my understanding that a recent issue of the New York Times carried an article regarding the finding of some microphones by the British in one of their buildings here. The following information was obtained by the writer from



b7D

61 MAY 16 1947

RECORDED 105-19581-897  
EX-70

Prices of consumers goods definitely reflect inflation. A man's cap -- \$16.00. Adults' shoes -- \$100.00. Shoes for children -- \$40.00. Watches -- \$400.00 to \$500.00. Electric phonographs -- \$300.00. Single-unit hot plates of very poor quality -- \$25.00. Ordinary upright pianos -- \$1000.00. Soap -- \$3.00 a bar. Women's blouses -- \$50.00.

Surveillances of delegation members has been spotty. The writer has not been under surveillance at any time. From talking to other persons, it would appear that there is no definite program of surveillance of delegation members. In the few instances known to the writer, the purpose seems to have been to keep the individual under observation regardless of whether the fact of the surveillance became known.

Secretary of State Marshall is followed by two cars containing 12 men whenever he leaves the Embassy residence. In addition a Russian Army Captain accompanies him in his own (Marshall's) car. Ambassador Smith has a one car escort at all times. The purpose of the surveillance seems to be as much for protection as for information on contacts and places visited.

Several Soviet Nationals have guardedly expressed to the writer their desire to visit the States, but have pointed out the fact that it is next to impossible to get an exit visa. They wish it was not that way. One stated that the fear of the NKVD (MVD) constantly restrains the activities and thoughts and speech of almost all Soviet citizens. Another praised the standard of living of American citizens and complained that even with all the five-year plans, the average Soviet has no more, and in some cases less than he had under the Czar. One even stated that things might be different had Lenin lived.

Very truly yours,

*John M. Matter*

John M. Matter

May 5, 1947

~~PERSONAL AND CONFIDENTIAL~~  
BY SPECIAL MESSENGER

Honorable George C. Marshall  
Secretary of State  
Department of State  
Washington, D. C.

My dear General Marshall:

The Agent of this Bureau who at your request accompanied your Delegation to Moscow for the Foreign Ministers' Conference has returned to the United States and has prepared a complete memorandum covering his technical assignment. Two copies of this memorandum are attached.

It is noted that a complete physical and electronic check was made by our Agent of all of the rooms at the Ambassador's residence (Spaso House) as well as seven rooms of the United States Embassy building. This check failed to reflect the existence of any microphone installations.

A technical check was also made of the phono system at Spaso House and at the Embassy which revealed no evidence of wire tapping within the limits of the building. Included in the memorandum are a series of recommendations regarding future security of Spaso House and the Embassy building.

I am informed that every possible courtesy and assistance was rendered our Agent in Moscow for which I am deeply appreciative. I trust that you will find the attached memorandum of interest.

With assurances of my highest regards,

Sincerely yours,

W. M. ...  
L. H. ...

Mr. Tolson  
Mr. E. A. Tamm  
Mr. Clegg  
Mr. Glavin  
Mr. Ladd  
Mr. Nichols  
Mr. Rosen  
Mr. Tracy  
Mr. Carson  
Mr. Egan  
Mr. Gurnea  
Mr. Hendon  
Mr. Pennington  
Mr. Quinn Tamm  
Mr. Nease  
Mr. Gandy

Date 7/14/09

Document Type: ☐ Letter ☐ Airtel ☒ LHM ☐ Memo ☐ Report  
☐ Facsimile ☐ Teletype ☐ Misc ☐ EC ☐ Email  
Enclosure ☒ Attachment \_\_\_\_\_

☐ \_\_\_\_\_  
☐ Other \_\_\_\_\_ (specify)

Date of Mail 1/26/61

Originating Office or agency State Dept.

☒ Special File Room, FBIHQ ☐ FBIHQ, Room \_\_\_\_\_

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Initials of Clerk

## SERIAL CHARGE-OUT

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SECURITY INFORMATION - TOP SECRET

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FBI AUTOMATIC DECLASSIFICATION GUIDE  
DATE 09-15-2014 by F26M48K40 KSA

RECORDED

15-14581-10

Date: September 8, 1952

VIA LIAISON

To: Mr. John W. Ford  
Chief, Division of Security  
U. S. Department of State  
515 22nd Street, N. W.  
Washington, D. C.

"JUNE"

From: John Edgar Hoover - Director, Federal Bureau of Investigation

Subject: MICROPHONE INSTALLATIONS AND WIRE  
TAPPING DIRECTED AGAINST DIPLOMATIC  
ESTABLISHMENTS OF THE UNITED STATES ABROAD

Reference is made to discussions with representatives of this Bureau regarding [redacted]

[redacted] of the United States abroad, with particular reference to the period from 1949 to date, including incidents in [redacted] as well as the suspected penetration of [redacted]

In connection with these incidents, it would be helpful to know whether the occurrences in [redacted] have been traced by investigation to Communists or Soviet-inspired activity.

Because of the domestic intelligence responsibilities of this Bureau, any additional data regarding these previous incidents or additional incidents in the future would be of considerable interest.

Tolson  
Ladd  
Nichols  
Belmont  
Clegg  
Glavin  
Harbo  
Rosen  
Tracy  
Laughlin  
Mohr  
Tele. Rm.  
Holloman  
Gandy

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SECURITY INFORMATION - TOP SECRET

U.S. DEPT. OF JUSTICE  
FBI  
RECEIVED READING ROOM  
SEP 8 1952

SEP 8 1952  
U.S. DEPT. OF JUSTICE



MR. A. H. BELMONT

October 9, 1952

MR. W. A. FRANICAN

CONFIDENTIAL FILES MAINTAINED  
IN ROOM C527

PURPOSE

To recommend that the file on "Microphone  
and Technical Installations in the [redacted]  
[redacted] Bureau  
file 105-19581, be maintained with the confidential files  
in Room C527.

b7D

DETAILS

The file on [redacted]

b7D

matters directly affecting the relations of the United  
States with the Soviet Union and its satellites.

Much of the technical information has been  
designated "JUNK" and consequently maintained in Room  
1736. Nevertheless, the balance of the information in  
this file relating to countermeasures and policy relates  
to data classified, "Security Information - Top Secret."

ACTION

It is recommended that this file be maintained  
in Room C527 and that its contents be made available only  
on a "strict need-to-know basis."

CS-17404

cc-105-19581

105-19581-  
NOT RECORDED  
71 OCT 9 1952

LF:esf

57 OCT 17 1952

Tolson  
Ladd  
Nichols  
Belmont  
Clegg  
Glavin  
Harbo  
Rosen  
Tracy  
Laughlin  
Mohr  
Tele. Rm.  
Holloman  
Gandy

*File should  
continue to remain  
in conf file room  
6/7/67  
WTS*

ORIGINAL FILE IN 100-17444-15

# Office Memorandum • UNITED STATES GOVERNMENT

TO : Mr. Harbo *RB*

DATE: September 23, 1952

FROM : I. W. Conrad

SUBJECT: MICROPHONES AND TECHNICAL INSTALLATIONS  
IN US EMBASSIES ABROAD  
ESPIONAGE - R

*JUNE*

Tolson \_\_\_\_\_  
Ladd \_\_\_\_\_  
Nichols \_\_\_\_\_  
Belmont \_\_\_\_\_  
Clegg \_\_\_\_\_  
Glavin \_\_\_\_\_  
Harbo \_\_\_\_\_  
Rosen \_\_\_\_\_  
Tracy \_\_\_\_\_  
Mohr \_\_\_\_\_  
Tele. Rm. \_\_\_\_\_  
Nease \_\_\_\_\_  
Gandy \_\_\_\_\_

Reference is made to memorandum under date of September 11, 1952, from Mr. A. H. Belmont to Mr. D. M. Ladd advising of the finding of an ultramodern radio transmitter concealed in the library in the residence of the U.S. Ambassador in Moscow. The transmitter was found by State Department technicians.

*Heffrich*

The transmitter mentioned above was delivered to the Laboratory and examined by personnel of the Radio and Electrical Section on September 16 and 17.

*Conrad*

## RESULTS OF LABORATORY EXAMINATION

It was found that the "ultramodern radio transmitter" consisted of a cavity resonator with a condenser microphone built into the high impedance end of the cavity and with a  $1\frac{1}{2}$  wave length antenna extending out the side of the cavity. It was immediately apparent that the device was designed for use as a microphone unit without any external wire connections by beaming a UHF radio signal of suitable strength and frequency toward the antenna of the unit and by using suitable UHF radio receiving equipment which would pick up and demodulate the re-radiated and modulated signal emitted by the antenna of the device.

Attempts were made by using the available electronics test equipment in the Laboratory to determine the UHF operating frequency of the device. These attempts were at first unsuccessful due to the fact our test equipment would not operate at frequencies higher than approximately 400 mc. Personnel of the electronics division of the National Bureau of Standards were then contacted in an endeavor to locate suitable test equipment for this project. As a result of this contact, the Bureau was able to borrow, for a period of one day, one Power Oscillator, Airborne Instruments Laboratory, Inc., type 124, range 300-2500 mc; one Hewlett-Packard model 610A UHF Signal Generator with range 450-1200 mc; one tuning unit TN-19/APR-4 (975-2200 mc range), and one tuning unit TN-54/APR-4 (2150-4000 mc range). After obtaining the above equipment from the Bureau of Standards and checking throughout the frequency range of 100-2500 mc it was determined that the "ultramodern radio transmitter" was designed to operate on a frequency between the limits of approximately 1650-1800 mc, the exact operating frequency being determined by the setting of an adjustment which was built into the cavity resonator of the unit.

*Soviet Office Microphone Installations in the United States Embassy, Moscow*

BLS:vrh *10-17-52*  
Attachment *EX-28*

RECORDED - 53

INDEXED - 53

*105-19581-16*

SEP 30 1952

*500-19581-16*  
*7-4*

Memorandum to Mr. Harbo

September 23, 1952

After the operating frequency of the device was determined, tests were conducted to determine the microphone sensitivity of the unit. Results of these tests indicated that the microphone was very sensitive with good pickup range and good quality of speech reproduction. There are attached hereto, photographs of the device in various stages of assembly and positions and a diagram showing the various dimensions of the unit.

ACTION

It is recommended that this report be placed in the Bureau file.

FEDERAL BUREAU OF INVESTIGATION  
SERIAL CHARGE-OUT

\* This form is consolidated with the old FD-654, based on a Sentinel review.

Date 7/14/09

**Document Classification:** ☐ Unclass ☐ Confidential ☐ Secret ☒ Top Secret

Document Type: ☐ Letter ☐ Airtel ☒ LHM ☐ Memo ☐ Report  
☐ Facsimile ☐ Teletype ☐ Misc ☐ EC ☐ Email  
Enclosure \_\_\_\_\_ Attachment \_\_\_\_\_

**SCI TYPE:** \*requires special handling

<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	Other _____ (specify)

FD-501 Number \_\_\_\_\_

Date of Mail 10/23/52

Originating Office or agency DO5

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☒ Special File Room, FBIHQ      ☐ FBIHQ, Room \_\_\_\_\_



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File 105 19581 82  
Class. Office of Origin Case No. Last Serial

☐ Pending ☐ Closed

Serial No.	Description of Serial	Date Charged
25	DOS Doc.	

Employee \_\_\_\_\_

## RECHARGE

Date \_\_\_\_\_

To \_\_\_\_\_ From \_\_\_\_\_

Initials of Clerk

## SERIAL CHARGE-OUT

ATTENDANCE AT MEETING, OCTOBER 1, 1952

For the Department of  
the Army

Major General Richard C. Partridge  
Colonel H. H. Kaesser, Jr.

For the Department of  
the Navy

Captain D. C. Hamberger  
Mr. B. L. Willard

For the Department of  
the Air Force

Major General Joseph F. Carroll  
Colonel Charles Sommers

National Security Council Mr. Patrick J. Coyne

105-19581-26

ENCLOSURE

## Office Memorandum • UNITED STATES GOVERNMENT

JUNE

DATE: October 13, 1952

TO : MR. LADD

FROM : A. H. BELMONT

SUBJECT: MICROPHONE AND TECHNICAL INSTALLATIONS IN UNITED STATES DIPLOMATIC ESTABLISHMENTS ABROAD  
(105-19581)

Tolson \_\_\_\_\_  
 Ladd \_\_\_\_\_  
 Clegg \_\_\_\_\_  
 Glavin \_\_\_\_\_  
 Nichols \_\_\_\_\_  
 Rosen \_\_\_\_\_  
 Tracy \_\_\_\_\_  
 Harbo \_\_\_\_\_  
 Belmont \_\_\_\_\_  
 Mohr \_\_\_\_\_  
 Tele. Room \_\_\_\_\_  
 Nease \_\_\_\_\_  
 Gandy \_\_\_\_\_

It is respectfully recommended that since research has been completed on development of activating devices for the so-called "resonant cavity" that the FBI Laboratory advise the Domestic Intelligence Division how soon "resonant cavities" and their activating devices can be made available to the field, since their use is of definite value in domestic intelligence investigations.

CC - Mr. Harbo

LW:tlc

RECORDED - 93

SE-36

EX-141

105-19581-31  
101 28 10011-12-52  
R

② Microphone and Technical  
 in Domestic Intelligence Division

memo  
 10/21/52

3-100

## Office Memorandum • UNITED STATES GOVERNMENT

TO : MR. D. M. LADD

DATE: October 23, 1952

FROM : MR. A. H. BELMONT

JUNESUBJECT: MICROPHONE AND TECHNICAL INSTALLATIONS  
IN U. S. EMBASSIES ABROAD  
ESPIONAGE - R

Tolson	_____
Ladd	_____
Nichols	_____
Belmont	_____
Clegg	_____
Glavin	_____
Harbo	_____
Rosen	_____
Tracy	_____
Mohr	_____
Tele. Rm.	_____
Nease	_____
Gandy	_____

A memorandum dated October 21, 1952, from Mr. Parsons to Mr. Harbo indicates that the completion of research on the resonant cavity microphone-transmitter found in the residence of the U. S. Ambassador in Moscow is at least a month away. While the memorandum indicates there are practical difficulties which must be overcome before the device could be made available for the Bureau's use, it is felt that the possibilities presented by having such an instrument available in the handling of our cases are such that its adaptation should be effected as soon as possible. There are certain conditions under which this device would appear to make possible microphone coverage where existing devices are not practical.

RECOMMENDATION:

It is recommended that the Laboratory advise the Domestic Intelligence Division as soon as it has progressed in its research to a point where practical application of this device can be made.

CEH:LL

~~105-19851~~

cc-Mr. D. J. Parsons

EX-141

RECORDED - 93

INDEXED - 93

13

OCT 29 1952

33

5

7

FEDERAL BUREAU OF INVESTIGATION  
SERIAL CHARGE-OUT

\* This form is consolidated with the old FD-654, based on a Sentinel review.

Date 7/14/09

Document Classification: ☐ Unclass ☐ Confidential ☐ Secret ☒ Top Secret

Document Type: ☐ Letter ☐ Airtel ☐ LHM ☒ Memo ☐ Report  
☐ Facsimile ☐ Teletype ☐ Misc ☐ EC ☐ Email  
Enclosure \_\_\_\_\_ Attachment           

SCI TYPE: \*requires special handling

☐ ☐ ☐ ☐ ☐ ☐ ☐ Other \_\_\_\_\_ (specify)

FD-501 Number \_\_\_\_\_

Date of Mail NO DATE

Originating Office or agency NAVY

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☐

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File 105 19581 82  
Class. Office of Origin Case No. Last Serial

☐ Pending ☐ Closed

Serial No.	Description of Serial	Date Charged
<u>35</u>	<u>NAVY DOC. Attachment</u>	

Employee \_\_\_\_\_

RECHARGE

Date \_\_\_\_\_

To \_\_\_\_\_ From \_\_\_\_\_

Initials of  
Clerk

SERIAL CHARGE-OUT

b7E



Q

November 5, 1952

~~SECRET~~ - AIR COURIER

Legal Attache  
London, England

105-19581-37

RECORDED-20

EX-110

MICROPHONE AND TECHNICAL  
INSTALLATIONS IN U. S.  
EMBASSIES ABROAD  
ESPIONAGE - R.

JUNE

Further reference is made to Bulet 10/6/52 and  
urlet 10/24/52 concerning the Russian microphone device  
found in the residence of the U. S. Ambassador in Moscow  
in September of this year.

For your information

[redacted]  
[redacted] visited  
the Bureau with [redacted]  
in Washington. [redacted] advised that based on the  
[redacted]

b7D

you should maintain contact with him in order that you  
may receive any information he desires to furnish us  
through you.

- 11-21-52  
Telson  
Ladd  
Nichols  
Belmont  
Clegg  
Glavin  
Harbo  
Rosen  
Tracy  
Laughlin  
Mohr  
Tele. Rm.  
Holmes  
Gandy

105-19581

LEGAT  
COMM-FBI

cc: Foreign Service Desk

DJP/nak

RECEIVED  
NOV 11 1952  
FBI  
COMM-FBI  
LEGAT  
NOV 11 1952

RD  
P  
JL  
FBI



UNITED STATES DEPARTMENT OF JUSTICE  
FEDERAL BUREAU OF INVESTIGATION

In Reply, Please Refer to  
File No.

American Embassy  
1, Grosvenor Square  
London, W. 1

~~SECRET~~ - AIR COURIER

Date: October 24, 1952

To: Director, FBI

From: Legal Attache  
London, England

Subject: MICROPHONE AND TECHNICAL  
INSTALLATIONS IN U. S.  
EMBASSIES ABROAD  
ESPIONAGE - R

"JUNE"

ReBulet 10-6-52.

When the contents of reBulet were discussed with [redacted]  
[redacted] who requested all his remarks be considered off-the-record, he said  
that, over a year ago, [redacted]

[redacted] Since then, there has [redacted]  
[redacted] to locate the source of this transmission.  
Consequently, when the present incident arose, leading to the discovery of  
the resonant cavity, [redacted]

[redacted] photographs of the device, said that [redacted]  
[redacted] and were presently [redacted]  
[redacted] etc.

[redacted] stated that, inasmuch as [redacted]  
[redacted] regarding the device came from State Department sources, they assumed  
the Bureau was naturally being kept advised in Washington as to all developments.

[redacted] con-  
fidentially stated [redacted]  
[redacted] He recalled it was shown not only to the Bureau, but also, he believes,  
to General Bedell Smith and the Chiefs of Army, Air Force, and Naval Intelligence.  
He stated its [redacted]

JPO:CFJ

RECORDED-20

105-19581-37

13 NOV 13 1952

Letter to LA  
London  
AGP 11/5/52  
EX-110

5-11/11/52

EXPEDITE PROCESSING.  
OCT 30 1952

b7D

b7D

b7D

Director, FBI

10-24-52

[redacted] claimed to be more than certain the Bureau is in possession of all information available to date regarding the instrument. If there is any doubt on this point, he suggested contacting John W. Ford, Chief, Division of Security, Department of State.

b7D

The Bureau will be kept advised as to actions taken [redacted]

## Office Memorandum • UNITED STATES GOVERNMENT

TO : Mr. Harbo *RB*

DATE: November 4, 1952

FROM : I. W. Conrad *JWC*JUNESUBJECT: MICROPHONE AND TECHNICAL INSTALLATIONS IN  
U. S. EMBASSIES ABROAD  
ESPIONAGE - R

Tolson	_____
Ladd	_____
Nichols	_____
Belmont	_____
Clegg	_____
Glavin	_____
Harbo	_____
Rosen	_____
Tracy	_____
Mohr	_____
Tele. Rm.	_____
Nease	_____
Gandy	_____

SYNOPSIS:

Briefing on new type listening device to OSI district commanders by SA R. W. Swartz of the Laboratory on 11-3-52 handled per Director's instructions. This memo is for information purposes. Technical details are attached. *NO*

BACKGROUND

The memo from Mr. Belmont to Mr. Ladd dated 10-23-52 advised of General Carroll's request that the OSI technical men from overseas commands be briefed on the new type of listening device by FBI technical representative and the briefing was approved by the Director. *B. J. T. 11/3/52*

SA E. S. Sanders advised that the conference would be held in room 2431, Temporary U Building, 12th and Constitution, Northwest, and Lt. Colonel Yandoh was to be contacted there. This building area is in use as an OSI school. *S. Sanders*

DETAILS

The initial 45 minutes consisted of presentation of information and was followed by 15 minutes of questions and answers.

There is attached an outline of the material covered along with a summary of pertinent questions which arose.

The briefing appeared to be well received and Lt. Colonel Yandoh expressed his appreciation for it.

RECOMMENDATION

The above is submitted for your information and for record purposes. *F*

Attachment

RWS:vrh *11/28/52*

RECORDED - 40

105-19581-105-19581-38

13 NOV 21 1952

EX-110

*5-6 R. H. [unclear]*  
*7-RO*

## CAVITY MICROPHONE

### Description

Physical - picture  
Operation - 1700. mc

### Background

Problem encountered - heard on receiver  
Search by use of audio  
Discovery and installation - imbedded in a seal

### Countermeasures

To locate and capture microphone  
Active detection simulates actual operation  
  
Transmitter (signal generator)  
Receiver (aperiodic within band)  
  
General procedure to be followed  
Antenna patterns may vary  
Physical cover for driving transmitter and receiver

### Technical requirements

Operators must understand fundamentals of operation  
Must be aware of possible variations in frequency and physical shape  
Must be able to handle local technical problems  
Strong undesired local signal  
Coorelation of available information with searches  
"General understanding of microphone possibilities (other types)"  
(only referred to as above, no elaboration)

### Project current status

Microphone turned over to FBI  
Examined and operated  
NRL and FBI carrying on countermeasures development  
Completion in week or two of prototype equipment and final technical report

### QUESTION PERIOD

What can be done as a countermeasure until countermeasure equipment is available?

ANSWER: No technical help can be provided but it is suggested

ENCLOSURE

105-19581-38

that general security factors be reviewed in the meantime.

Does the unit appeared to be mass produced?

ANSWER: The unit was marked with the number "11" and parts were "drawn" by heavy machinery so the possibility of a number of units having been made is very good.

How far away can the enemy transmitter be?

ANSWER: FBI tests in the open gave 75 feet range with no specific design of the equipment used in the test but a theoretical range of 15 miles of 200 watts of power indicates that the practical range could be much more than 75 feet. Sending the radio signal through a wall is difficult and greatly reduces the practical range.

Were there 2 such microphones?

ANSWER: Only one to the speaker's knowledge.

Has a contact microphone on a spike been used as one of these devices?

ANSWER: The speaker does not know of any such use.

Does the enemy know when the device is being taken out?

ANSWER: Probably, as they can hear what is going on in the room and handling the device is clearly received.

Can strips of tinsel be used as an interim countermeasure?

ANSWER: It might be effective over a certain frequency band but would be of no help on other frequency bands.

Has a copy of the microphone been made?

ANSWER: The speaker has not seen it if it has.

The briefing was terminated when there appeared to be no further questions.

DATE OF MAIL

10/31/52.

HAS BEEN REMOVED FOR MR. LAMPHERE TO BE KEPT PERMANENTLY IN HIS  
OFFICE, ROOM 1736

SEE FILE 66-2554-7530 FOR AUTHORITY.

SUBJECT

JUNE MAIL

51 DEC 23 1952

REMOVED BY

FILE NUMBER

105-19581-✓

PERMANENT SERIAL CHARGEOUT

619

\* This form is consolidated with the old FD-654, based on a Sentinel review.

Date 7/14/09

**Document Classification:** ☐ Unclass ☐ Confidential ☐ Secret ☒ Top Secret

Document Type: ☐ Letter ☐ Airtel ☒ LHM ☐ Memo ☐ Report  
☐ Facsimile ☐ Teletype ☐ Misc ☐ EC ☐ Email  
Enclosure \_\_\_\_\_ Attachment \_\_\_\_\_

**SCI TYPE:** \*requires special handling

☐ ☐ ☐ ☐ ☐ Other \_\_\_\_\_ (specify)

FD-501 Number \_\_\_\_\_

Date of Mail 11/17/52

Originating Office or agency Dept. of State

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Employee

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Date: \_\_\_\_\_

To \_\_\_\_\_ From \_\_\_\_\_

Initials of Clerk

## SERIAL CHARGE-OUT

b7E

b6  
b7C



NOTE: Ben L. Sutton, EOD 9-21-42 as clerk, appointed SA 5-19-46, GS-12, assigned Technical Lab.

Roger W. Swartz, EOD 1-22-40 as clerk, appointed SA 11-16-41, GS-13, assigned Technical Lab.

Wayne W. Bradley, EOD 8-19-40 as clerk, appointed SA 8-29-43 limited, SA 9-14-44, GS-12, assigned Technical Lab.

# NEW VP WON'T BE GUEST AT U. S. EMBASSY

## Will Occupy Suite At Hotel

MEXICO CITY, Nov. 25 (CTPS) —Vice-President-elect Nixon, who has been appointed by President-elect Eisenhower as his personal representative to attend next Monday's inauguration of Mexico's new chief of state, will get more than a frosty reception from United States Ambassador William O'Dwyer. In fact, he apparently will get no reception at all.

Word came from embassy officials today that arrangements are being made for Nixon to stay in the hotel del Prado in Mexico City, rather than in the United States embassy residence, which usually houses high ranking visitors such as presidents, and presumably including persons elected to these positions even tho not yet inducted into office.

### May Not Be So Complete

Furthermore, indications are that O'Dwyer will not even invite Nixon to the United States embassy. Thus far O'Dwyer has arranged that the lone reception planned for the United States delegation will be held at the home of the counsellor of the embassy, Paul Culbertson.

It is apparent that O'Dwyer is so angry over Nixon's recent statement in Washington that he would have "what contact with O'Dwyer his official position and mine will require," that he is going to give Nixon a first rate snubbing.

Nixon was named by President-elect Eisenhower to attend the inauguration of Mexico's new president, Adolfo Ruiz Cortines. Eisenhower also sent a personal message of friendship to the Mexican people which received banner headline play in the Mexican press today.

### 54 Nations Represented

Fifty-four nations are sending delegations to attend the inauguration, which will be a brilliant spectacle. The principal ceremony will be held in Mexico's palace of fine arts at Monday noon. The whirl of events includes inaugural balls and receptions.

Ruiz Cortines is practically the handpicked choice of the present president, Miguel Aleman, and is expected to carry on Aleman's program of public works and general improvement of the living standards of the Mexican people.

Aleman soon will leave for a winter vacation in Europe, returning to devote his attention to his two ranches. He is a wealthy man.

O'Dwyer, who not too long ago vented his temper on a wire service correspondent who announced O'Dwyer was considering Mexican citizenship, has said he will resign about Jan. 2. Indications are that he will become a law consultant in Mexico. His wife is said to be furnishing a lavish home which will include crystal chandeliers.

Tolson \_\_\_\_\_  
Ladd \_\_\_\_\_  
Nichols \_\_\_\_\_  
Belmont \_\_\_\_\_  
Clegg \_\_\_\_\_  
Glavin \_\_\_\_\_  
Harbo \_\_\_\_\_  
Rosen \_\_\_\_\_  
Tracy \_\_\_\_\_  
Laughlin \_\_\_\_\_  
Mohr \_\_\_\_\_  
Tele. Rm. \_\_\_\_\_  
Holloman \_\_\_\_\_  
Gandy \_\_\_\_\_

Washington Times-Herald 22

Wash. Post \_\_\_\_\_

Wash. News \_\_\_\_\_

Wash. Star \_\_\_\_\_

N.Y. Mirror \_\_\_\_\_

N.Y. Compass \_\_\_\_\_

Date: 11-26-52

105-19581-477

SECURITY INFORMATION - ~~TOP SECRET~~

December 4, 1952

PERSONAL AND CONFIDENTIAL  
VIA LIAISON

RECORDED-10  
105-11511-51

Honorable Gordon E. Dean  
Chairman  
Atomic Energy Commission  
19th and Constitution Avenue, N. W.  
Washington, D. C.

Personal delivery  
12-5-52  
12-5-52  
12-5-52

Dear Mr. Dean:

Enclosed herewith is the final technical report in connection with research made as a result of the finding of a new type listening device in the residence of the U. S. Ambassador in Moscow, Russia. The report consists of three parts as follows:

- The report of the FBI Laboratory's analysis and experiments.
- A detailed scale drawing of the Russian cavity microphone and photographs of the device and its various parts. This also contains photographs of the wooden seal in which the device was found.
- The report of the Naval Research Laboratory with the theoretical development and complete discussions and diagrams of the special receiving equipment designed and constructed for the detection of these devices.

12/2/52  
Earl Nichols, AEC  
advised he has been  
instructed to  
also head  
from Naval  
Research Lab  
concerning  
this info. is  
being  
12/2/52

Please feel free to call upon me should there be any questions or problems arising in connection with this matter.

Sincerely yours,

DEC 10 1952

Enclosure

ESS:hke

SECURITY INFORMATION - ~~TOP SECRET~~

105-11511-51  
105-11511-51

WPK

Tolson  
Ladd  
Nichols  
Belmont  
Clegg  
Glavin  
Harbo  
Rosen  
Tracy  
Laughlin  
Mohr  
Tele. Rm.  
Holloman  
Gandy



United States Department of Justice  
Federal Bureau of Investigation  
Washington 25, D. C.

IN REPLY, PLEASE REFER TO

FILE NO. \_\_\_\_\_

CLASSIFIED DOCUMENT RECEIPT

I have personally received Copy  
Number 9 of FBI Laboratory Report.  
#PC-34361 AC consisting of 11 pages and  
2 attachments.

Bryan L. L. L. L.  
Signature

12/5/51  
Date

ENC. - 17

105-19581-51

**SECURITY INFORMATION - ~~TOP SECRET~~**

December 4, 1952

**PERSONAL AND CONFIDENTIAL**  
**VIA LIAISON**

Mr. Raymond P. Whearty  
Chairman  
Interdepartmental Committee on  
Internal Security  
U. S. Department of Justice Building  
Washington, D. C.

Dear Mr. Whearty:

Enclosed herewith is the final technical report in connection with research made as a result of the finding of a new type listening device in the residence of the U. S. Ambassador in Moscow, Russia. The report consists of three parts as follows:

- The report of the FBI Laboratory's analysis and experiments.
- A detailed scale drawing of the Russian cavity microphone and photographs of the device and its various parts. This also contains photographs of the wooden seal in which the device was found.
- The report of the Naval Research Laboratory with the theoretical development and complete discussions and diagrams of the special receiving equipment designed and constructed for the detection of these devices.

ENCLOSURE  
Please feel free to call upon me should there be any questions or problems arising in connection with this matter.

Sincerely yours,

Enclosure

ESS:hke/ke

**SECURITY INFORMATION - ~~TOP SECRET~~**

1 copy cc to Matter 700 515  
11-14-52, L.W./R.M.

REC-4 3:54 PM '52  
RECEIVED  
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Tolson  
Ladd  
Nichols  
Belmont  
Clegg  
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Harbo  
Rosen  
Tracy  
Laughlin  
Mohr  
Tele. Rm.  
Holloman  
Candy

VPK

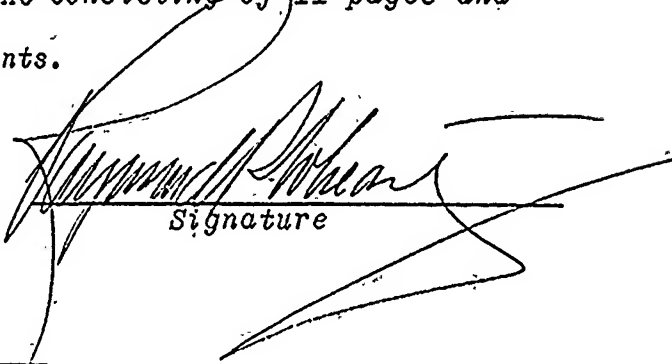


United States Department of Justice  
Federal Bureau of Investigation  
Washington 25, D. C.

IN REPLY, PLEASE REFER TO  
FILE NO. \_\_\_\_\_

CLASSIFIED DOCUMENT RECEIPT

I have personally received Copy  
Number 8 of FBI Laboratory Report.  
#PC-34361 AC consisting of 11 pages and  
2 attachments.

  
\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

FILED

105-19581-51

SECURITY INFORMATION - ~~SECRET~~ SECRET

December 4, 1952

PERSONAL AND CONFIDENTIAL  
VIA LIAISON

Honorable Matthew J. Connelly  
Secretary to the President  
The White House  
Washington, D. C.

Dear Matt:

Reference is made to my letter of October 17, 1952, pertaining to technical information developed on the Russian microphone device which was recently discovered in our installation in Moscow.

The technical research in connection with this matter has now been completed, and there is enclosed herewith for your information and the information of the President the final technical report. This report consists of three parts as follows:

- a. The report of the FBI Laboratory's analysis and experiments.
- b. A detailed scale drawing of the Russian cavity microphone and photographs of the device and its various parts. This also contains photographs of the wooden seal in which the device was found.
- c. The report of the Naval Research Laboratory with the theoretical development and completed discussions and diagrams of the special receiving equipment designed and constructed for the detection of these devices.

ENCLOSURE

10

Tolson  
Ladd  
Nichols  
Belmont  
Clegg  
Glavin  
Harbo  
Rosen  
Tracy  
Laughlin  
Mohr  
Tele. Rm.  
Holloman  
Gandy

Delivered  
12/5/52 3:00 PM  
ESS: nke

RECEIVED

SECURITY INFORMATION - ~~SECRET~~ SECRET

Sample to MATTER 711-13  
11-16-65, L. J. Smith

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ABg V. g  
w/s  
el  
MKT

8 8  
SECURITY INFORMATION - TOP ~~SECRET~~

In line with your previous suggestions, the report is being made available to Mr. John W. Ford of the State Department, the members of the Interdepartmental Intelligence Conference, the Chairman of the Interdepartmental Committee on Internal Security, the Director of the Central Intelligence Agency and the Chairman of the Atomic Energy Commission.

With assurances of my best wishes and highest esteem,

Sincerely yours,

Enclosure

- 2 -

SECURITY INFORMATION - TOP ~~SECRET~~





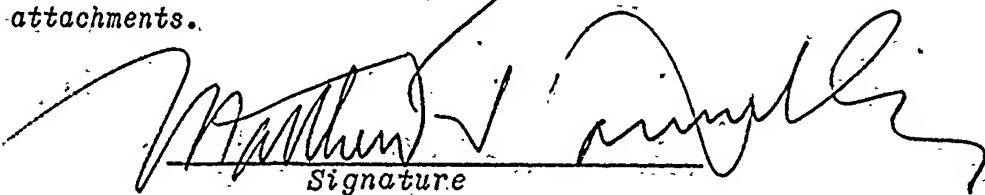
United States Department of Justice  
Federal Bureau of Investigation  
Washington 25, D. C.

IN REPLY, PLEASE REFER TO

FILE NO. \_\_\_\_\_

*CLASSIFIED DOCUMENT RECEIPT*

I have personally received Copy  
Number 1 of FBI Laboratory Report.  
#PC-34361 AC consisting of 11 pages and  
2 attachments.

  
\_\_\_\_\_  
Signature

  
\_\_\_\_\_  
Date

ENCLOSURE

105-19581-51

# SECURITY INFORMATION - ~~TOP SECRET~~

December 4, 1952

~~PERSONAL AND CONFIDENTIAL~~  
~~VIA LIAISON~~

Mr. John F. Ford  
Chief, Division of Security *U. S. State Dept. 12/11/52*  
Department of State  
Washington 25, D. C.  
Dear Mr. Ford: *[100-11541-51] (S) (U)*

*# 2 + 3*  
~~ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
DATE 11/11/52 BY 100-11541-51~~

Enclosed herewith are two copies of the final technical report which has been compiled in connection with research as a result of the finding of a new type listening device in the residence of the U. S. Ambassador in Moscow. The final report consists of three parts as follows:

- The report of the FBI Laboratory's analysis and experiments.
- A detailed scale drawing of the Russian cavity microphone and photographs of the device and its various parts. This also contains photographs of the wooden seal in which the device was found.
- The report of the Naval Research Laboratory with the theoretical development and complete discussions and diagrams of the special receiving equipment designed and constructed for the detection of these devices. *(S) per Navy Letter 9-18-96*

In the event there are any matters in this connection in which we can help, please feel free to call upon us.

Sincerely yours,

Tolson  
Ladd  
Nichols  
Belmont  
Clegg  
Glavin  
Harbo  
Rosen  
Tracy  
Laughlin  
Mohr  
Tele. Rm.  
Holloman  
Gandy

Enclosures (2)

ESS:hke *hke*

SECURITY INFORMATION - ~~TOP SECRET~~

DEC 4 3 54 PM '52  
RECEIVED RECORDS ROOM  
F B I  
U S DEPT OF STATE

*100-11541-51*

*100-11541-51*



United States Department of Justice  
Federal Bureau of Investigation  
Washington 25, D. C.

IN REPLY, PLEASE REFER TO

FILE No. \_\_\_\_\_

~~SECRET~~

CLASSIFIED DOCUMENT RECEIPT

I have personally received Copy  
Number 3 of FBI Laboratory Report.  
#PC-34361 AC consisting of 11 pages and  
2 attachments.

J. H. Ford  
Signature *by JHJ*

12-5-51  
Date

~~ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
EXCEPT WHERE SHOWN  
OTHERWISE~~

5/25/95  
Classified by SP12BJ/AB  
Declassify on: OADR  
35403

~~SECRET~~

ENCLOSURE

[105-19581-51] (U)



United States Department of Justice  
Federal Bureau of Investigation  
Washington 25, D. C.

IN REPLY, PLEASE REFER TO

FILE NO. \_\_\_\_\_

CLASSIFIED DOCUMENT RECEIPT

I have personally received Copy  
Number 2 of FBI Laboratory Report  
#PC-34361 AC consisting of 11 pages and  
2 attachments.

J. H. Ford  
Signature by MEJ

12-5-52  
Date

~~ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
DATE 10/3~~

7/25/95  
~~Classified by SP7BJS/pb~~  
Declassify on: OADR  
351103

~~CONFIDENTIAL~~

ENCLOSURE

[105-19581-51] (S) (U)

SECURITY INFORMATION - ~~SECRET~~

December 4, 1952

PERSONAL AND CONFIDENTIAL  
VIA LIAISON

Rear Admiral Carl F. Espe  
Director of Naval Intelligence  
Department of the Navy  
Washington 25, D. C.  
105-19-21-51  
Dear Admiral Espe:

Enclosed herewith is the final technical report in connection with research made as a result of the finding of a new type listening device in the residence of the U. S. Ambassador in Moscow, Russia. The report consists of three parts as follows:

- a. The report of the FBI Laboratory's analysis and experiments.
- b. A detailed scale drawing of the Russian cavity microphone and photographs of the device and its various parts. This also contains photographs of the wooden seal in which the device was found.
- c. The report of the Naval Research Laboratory with the theoretical development and complete discussions and diagrams of the special receiving equipment designed and constructed for the detection of these devices.

Please feel free to call upon me should there be any questions or problems arising in connection with this matter.

Sincerely yours,

Enclosure

ESS:hke

SECURITY INFORMATION - ~~SECRET~~

142 of C. to MATTER 7/11/52  
11-16-65, - 10/12/61

Tolson \_\_\_\_\_  
Ladd \_\_\_\_\_  
Nichols \_\_\_\_\_  
Belmont \_\_\_\_\_  
Clegg \_\_\_\_\_  
Glavin \_\_\_\_\_  
Harbo \_\_\_\_\_  
Rosen \_\_\_\_\_  
Tracy \_\_\_\_\_  
Laughlin \_\_\_\_\_  
Mohr \_\_\_\_\_  
Tele. Rm. \_\_\_\_\_  
Holloman \_\_\_\_\_  
Candy \_\_\_\_\_

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FBI



United States Department of Justice  
Federal Bureau of Investigation  
Washington 25, D. C.

IN REPLY, PLEASE REFER TO

FILE NO. \_\_\_\_\_

CLASSIFIED DOCUMENT RECEIPT

I have personally received Copy  
Number 4 of FBI Laboratory Report  
#PC-34361 AC consisting of 11 pages and  
2 attachments.

D. C. Hunkeler  
Signature

5 Dec. 1952  
Date

105-19581-51

SECURITY INFORMATION - ~~SECRET~~

December 4, 1952

PERSONAL AND CONFIDENTIAL  
VIA LIAISON

Major General Richard G. Partridge  
Assistant Chief of Staff, G-2  
Department of the Army  
The Pentagon  
Washington 25, D. C.

Dear General Partridge:

1005-115 (1-5)

Enclosed herewith is the final technical report in connection with research made as a result of the finding of a new type listening device in the residence of the U. S. Ambassador in Moscow, Russia. The report consists of three parts as follows:

- a. The report of the FBI Laboratory's analysts and experiments.
- b. A detailed scale drawing of the Russian cavity microphone and photographs of the device and its various parts. This also contains photographs of the wooden seal in which the device was found.
- c. The report of the Naval Research Laboratory with the theoretical development and complete discussions and diagrams of the special receiving equipment designed and constructed for the detection of these devices.

Please feel free to call upon me should there be any questions or problems arising in connection with this matter.

Sincerely yours,

Tolson \_\_\_\_\_  
Ladd \_\_\_\_\_  
Nichols \_\_\_\_\_  
Belmont \_\_\_\_\_  
Clegg \_\_\_\_\_  
Glavin \_\_\_\_\_  
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Mohr \_\_\_\_\_  
Tele. Rm. \_\_\_\_\_  
Holloman \_\_\_\_\_  
Gandy \_\_\_\_\_

12-5-52  
DELIVERED TO  
COL PERRY  
(LANC)  
Enclosure  
ESS:hke

SECURITY INFORMATION - ~~SECRET~~

1/10/53 cc to MATTER 7115 TO  
1005-115

REC'D  
FBI  
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DEC 4 3 54 PM '52

1/11/53



United States Department of Justice  
Federal Bureau of Investigation  
Washington 25, D. C.

IN REPLY, PLEASE REFER TO

FILE NO. \_\_\_\_\_

*CLASSIFIED DOCUMENT RECEIPT*

I have personally received Copy  
Number 5 of FBI Laboratory Report  
#PC-34361 AC consisting of 11 pages and  
2 attachments.

  
\_\_\_\_\_  
Signature

R. W. LANG  
Lt Colonel, GS

5 Dec 1952  
Date

105-19581-51



**SECURITY INFORMATION - ~~TOP SECRET~~**

December 4, 1952

PERSONAL AND CONFIDENTIAL  
VIA LIAISON

General Walter Ecdall Smith  
Director, Central Intelligence Agency  
Room 123  
Administration Building  
2430 E Street, N. W.  
Washington, D. C.

} Given to Col. Sheffield Edwards  
Receipt obtained  
12/5/52  
- STP.

copy # 7

115-17571-51  
Dear General Smith:

Enclosed herewith is the final technical report in connection with research made as a result of the finding of a new type listening device in the residence of the U. S. Ambassador in Moscow, Russia. The report consists of three parts as follows:

- The report of the FBI Laboratory's analysis and experiments.
- A detailed scale drawing of the Russian cavity microphone and photographs of the device and its various parts. This also contains photographs of the wooden seal in which the device was found.
- The report of the Naval Research Laboratory with the theoretical development and complete discussions and diagrams of the special receiving equipment designed and constructed for the detection of these devices.

Please feel free to call upon me should there be any questions or problems arising in connection with this matter.

Sincerely yours

Enclosure

ESS:hke

**SECURITY INFORMATION - ~~TOP SECRET~~**

Tolson  
Ladd  
Nichols  
Belmont  
Clegg  
Glavin  
Harbo  
Rosen  
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Tele. Rm.  
Holloman  
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ABZ

V.

G

pl

1/1/53



United States Department of Justice,  
Federal Bureau of Investigation  
Washington 25, D. C.

IN REPLY, PLEASE REFER TO

FILE NO. \_\_\_\_\_

CLASSIFIED DOCUMENT RECEIPT

I have personally received Copy  
Number 7 of FBI Laboratory Report .  
#PC-34361 AC consisting of 11 pages and  
2 attachments.

*Edward S. [Signature]*  
Signature

5 Dec 1952  
Date

105-9581-51

SECURITY INFORMATION - ~~SECRET~~

December 4, 1952

PERSONAL AND CONFIDENTIAL  
VIA LIAISON

Major General Joseph F. Carroll  
Director  
Special Investigations  
The Inspector General, USAF  
The Pentagon  
Washington 25, D. C.

Dear General Carroll:

Enclosed herewith is the final technical report in connection with research made as a result of the finding of a new type listening device in the residence of the U. S. Ambassador in Moscow, Russia. The report consists of three parts as follows:

- a. The report of the FBI Laboratory's analysis and experiments.
- b. A detailed scale drawing of the Russian cavity microphone and photographs of the device and its various parts. This also contains photographs of the wooden seal in which the device was found.
- c. The report of the Naval Research Laboratory with the theoretical development and complete discussions and diagrams of the special receiving equipment designed and constructed for the detection of these devices.

Please feel free to call upon me should there be any questions or problems arising in connection with this matter.

Sincerely yours,

Tolson  
Ladd  
Nichols  
Belmont  
Clegg  
Glavin  
Harbo  
Rosen  
Tracy  
Laughlin  
Mohr  
Tele. Rm.  
Holloman  
Gandy

Enclosure

ESS:hke

SECURITY INFORMATION - ~~SECRET~~

10/15/52  
11-15-52

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DEC 11 1952

10-15-52



United States Department of Justice  
Federal Bureau of Investigation  
Washington 25, D. C.

IN REPLY, PLEASE REFER TO

FILE No. \_\_\_\_\_

CLASSIFIED DOCUMENT RECEIPT

I have personally received Copy  
Number 6 of FBI Laboratory Report.  
#PC-34361 AC consisting of 11 pages and  
2 attachments.

Joseph F. Curran  
Signature

5-11-52  
Date

105-19581-51

105-19581-51

## Office Memorandum • UNITED STATES GOVERNMENT

TO : THE DIRECTOR

DATE: December 4, 1952

FROM : D. M. LADD *DL*JUNE  
*141*SUBJECT: MICROPHONE AND TECHNICAL  
INSTALLATIONS FOUND IN  
U. S. EMBASSIES ABROAD  
ESPIONAGE - R

Tolson	_____
Ladd	_____
Nichols	_____
Belmont	_____
Mohr	_____
W.C. Sullivan	_____
Nease	_____
Glavin	_____
Harbo	_____
Rosen	_____
Tracy	_____
Laughlin	_____
Mohr	_____
Winterrowd	_____
Tele. Rm.	_____
Holloman	_____
Gandy	_____

Reference is made to memorandum from Mr. Parsons to Mr. Harbo dated December 1, 1952, which advised that the technical report has been completed concerning research made in connection with the new type listening device found in the residence of the U.S. Ambassador in Moscow, Russia. You instructed that a copy thereof be forwarded to the President and that the additional distribution be accomplished by letters delivered via liaison and that a signed receipt should be obtained for each copy of the report.

Attached hereto for your signature are suggested letters transmitting copies of the report to the following:

The President (Letter addressed to Matt Connelly);  
Mr. John W. Ford of the State Department;  
Directors of ONI, G-2 and OSI;  
Director of CIA;  
Chairman of the ICIS;  
Chairman of the Atomic Energy Commission.

*Receipts attached  
to yellow*

RECOMMENDATION:

If you approve of these letters, it is recommended that they be signed and thereafter delivered via liaison to the addressees. Signed receipts will be obtained for each report so delivered. The letter to the President will, of course, be delivered before the others are delivered.

Attachments (8)

ESS:hke

RECORDED - 10

105-19581-51  
DEC 12 1952

1 year ext. MATTER 71101B

11/10/65, 2W/DMH

7-A

## Office Memorandum • UNITED STATES GOVERNMENT

TO : MR. HARBO

DATE: November 6, 1952

FROM : D. J. PARSONS

SUBJECT: MICROPHONE AND TECHNICAL  
INSTALLATIONS IN U. S.  
EMBASSIES ABROAD  
ESPIONAGE - R

JUNE

Tolson ☒  
Ladd ☒  
Clegg ☒  
Glavin ☒  
Nichols ☒  
Rosen ☒  
Tracy ☒  
Harbo ☒  
Mohr ☒  
Tele. Room ☒  
Nease ☒  
Gandy ☒

I thought the Director would be interested in the attached photograph which is a picture of a microphone device accidentally detected in the building of the Swiss Legation in Moscow.

The microphone is built into an iron plug which serves as the closing plug in a radiator, and according to the Swiss report which we received through the State Department, it is outwardly indistinguishable from the conventional plug in other radiators of their establishment. There is a slit along one edge of the hexagonal head which is so small that it is barely perceptible. The wires from the microphone are encased in lead sheeting which runs through the radiator into the connecting pipes of the heating system to a concealed point where they emerge from the radiator pipe to a special fitting. Although the microphone is reported to have poor acoustic properties, the Swiss report it is adequate to permit receiving and readily understanding conversations. The conclusion in the Swiss report is that "The microphones set up on the premises of the Swiss Legation in Moscow have unquestionably permitted the Russians to monitor and understand the contents of all conversations conducted at normal volume of sound."

RECOMMENDATION: None. For information only.

cc: Mr. Belmont  
Attachment

DJP/mek

105-19581

EX-110  
RECORDED-1

105-19581-53

DEC 15 1952

12-24-52  
Photo detached  
and ~~sent~~ attached  
to State Dept. let 10/29/52  
105-19581  
D.

5-10

\* This form is consolidated with the old FD-654, based on a Sentinel review.

Date 7/14/08

**Document Type:** ☐ Letter ☐ Airtel ☐ LHM ☐ Memo ☐ Report  
☐ Facsimile ☒ Teletype ☐ Misc ☐ EC ☐ Email  
Enclosure \_\_\_\_\_ Attachment \_\_\_\_\_

**SCI TYPE:** \*requires special handling

☐ ☐ ☐ ☐

☐ Other \_\_\_\_\_ (specify)

b7D  
b7E

FD-501 Number

Date of Mail 11/10/52 ; 11/14/52

Originating Office or agency	
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**This serial has been removed and placed in:**

☒ Special File Room, FBIHQ      ☐ FBIHQ, Room \_\_\_\_\_

☐ Field Office-Room # Container # or Other Location Where Material Is Stored

File 105 19581 82  
Class. Office of Origin Case No. Last Serial

☐ Pending ☐ Closed

Serial No.	Description of Serial	Date Charged
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53X [ ] Doc.  
53X Outgoing LTL

b7D

Employee \_\_\_\_\_

## RECHARGE.

Date \_\_\_\_\_

To \_\_\_\_\_ From \_\_\_\_\_

Initials of Clerk

## SERIAL CHARGE-OUT

## Office Memorandum • UNITED STATES GOVERNMENT

TO : MR. HARBO

DATE: Dec. 8, 1952

FROM : D. J. PARSONS

June

SUBJECT: MICROPHONE AND TECHNICAL  
INSTALLATIONS FOUND IN U. S.  
EMBASSIES ABROAD; ESPIONAGE - R

Tolson	_____
Ladd	_____
Clegg	_____
Glavin	_____
Nichols	_____
Rosen	_____
Tracy	_____
Harbo	_____
Belmont	_____
Mohr	_____
Nease	_____
Gandy	_____

PURPOSE

The purpose of this memorandum is to recommend that we return to the U. S. Army Signal Corps Laboratories at Fort Monmouth, New Jersey, the ultra high frequency radio transmitter used during the research involving the Russian resonant cavity microphone. This should be returned by SA R. W. Swartz who will then have an opportunity to discuss with the Signal Corps experts any work they may have independently done in this field.

DETAILS

In the initial steps of the technical project to explore the Russian resonant cavity microphone, it will be recalled that we had no transmitters in the range of frequencies in which the microphone was found to operate. The first operation of the microphone was achieved with a signal generator borrowed from the U. S. Bureau of Standards which had a power of only a fraction of one watt. Since representatives of the Signal Corps were present at the initial technical discussion, they were aware of the work which the Bureau was doing. I inquired of the Signal Corps representatives as to whether they might have transmitting equipment which we could borrow having greater power than the Bureau of Standards' generator. Signal Corps people were most cooperative and one of their experts phoned from the Fort Monmouth, New Jersey, Laboratories to inquire of the specific equipment needed and thereafter, at their own expense, brought a transmitter of approximately four watts power to the Laboratory. This has been most helpful in completing our Laboratory work on the instrument.

We are now ready to return this piece of equipment to the Signal Corps Laboratories at Fort Monmouth, New Jersey. Since they have previously advised me that they were independently making some studies of the operation of resonant cavity microphones themselves, it is entirely possible that they have some information which would be of interest to us particularly in connection with the possible future acquisition of activating equipment.

We presently have two resonant cavity microphones which

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1-13-53



Memo to Mr. Harbo 12/8/52  
Re: 105-19581

are similar to the Russian instrument. We also have two receiving units which our personnel built at the Naval Research Laboratory, but we have no transmitters of any kind which can be used to activate the microphones either in searching for these listening devices or any desired operation of them. Independently of the return of the equipment which the Signal Corps generously brought to us, I think it would be to our benefit to have SA Swartz visit Fort Monmouth to see what work they have done. He will on the occasion of this visit return the transmitter and thank the Signal Corps for its use.

RECOMMENDATION

That SA R. W. Swartz of the Laboratory drive to the Signal Corps Laboratories at Fort Monmouth, New Jersey, and return the transmitting equipment which they loaned to us at our request, and also spend a day or two discussing any developments in this field which would contribute to our interest.

RH  
over  
12/9

## Office Memorandum • UNITED STATES GOVERNMENT

TO : R. T. Harbo *RT*

DATE: December 19, 1952

FROM : I. W. Conrad *IWC*

JUNE

SUBJECT: MICROPHONE AND TECHNICAL  
INSTALLATIONS FOUND IN  
U. S. EMBASSIES ABROAD  
ESPIONAGE - R.  
105-10581  
19581

Tolson \_\_\_\_\_  
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 Belmont ☒  
 Clegg \_\_\_\_\_  
 Glavin \_\_\_\_\_  
 Harbo \_\_\_\_\_  
 Rosen \_\_\_\_\_  
 Tracy \_\_\_\_\_  
 Laughlin \_\_\_\_\_  
 Mohr \_\_\_\_\_  
 Winterrowd \_\_\_\_\_  
 Tele. Rm. \_\_\_\_\_  
 Holloman \_\_\_\_\_  
 Gandy \_\_\_\_\_

SYNOPSIS:

Per Bureau instructions, R. W. Swartz of this Section returned the four-watt microwave transmitter to Signal Corps Engineering Laboratories at Fort Monmouth, New Jersey, on December 15, 1952. A successful microphone device had been built there from a drawing furnished them and they have concentrated on "positive" military application for "front line" use to communicate with rear military positions. Countermeasures development was left to NRL to avoid duplicate effort. Suggest Liaison Section borrow AN/PRR-4 receiver which they found suitable.

BACKGROUND:

Mr. Parsons' memorandum to you dated December 8, 1952, set out the cooperation of Signal Corps Engineering Laboratories with the Bureau in loaning the badly needed transmitter to us and delivering it promptly at their expense. It was pointed out that they may have done developmental work which would be of interest to us.

DETAILS:

Accordingly, Mr. Swartz returned the borrowed microwave transmitter, the most powerful obtainable for our purpose, on December 15, 1952, and discussed the Navy Research Laboratories report and general aspects of the problem with those men cleared for it and working on it at Signal Corps Engineering Laboratories (SCEL).

Dr. E. G. Witting, civilian head of development work at SCEL, discussed the inherent problems of such a device, stating that they were glad to be of assistance and wanted to help in any

cc Liaison

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105-19581-59

RWS:kmb

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*RWS*

*7-1*  
*CONRAD*

matter that the Bureau presented to them. Bureau appreciation of their assistance was expressed and discussions of technical details were referred to Evans Laboratories, a subdivision of SCEL.

Mr. Samuel Stiber, Mr. Russel Schmidt and Mr. Swartz discussed technical aspects of the microphone device at some length. In order to disperse any misgivings on the technical level about the project on countermeasures being carried on at Navy Research Laboratories, Mr. Swartz pointed out that duplication of effort and expense was thereby eliminated. All the men mentioned above indicated that their work had proceeded to the positive applications with some success, thereby proving that the elimination of duplicate countermeasure study was the best course of action.

They plan to examine further the use of such a microphone at front-line posts since no wires or batteries would be required for its operation. Since the microphone operates on a specific frequency, a large number of units could be operated from a single variable frequency transmitter at a rear command post.

Based on the FBI drawing furnished them, a unit was made which was claimed to have excellent audio sensitivity. Using a fraction of a watt of power and a AN/PRR-4 receiver the device was operated through a thin plywood wall. Positioning was very critical which compares with test results at the Bureau.

Using a spectrum analyzer they determined the modulation to be nearly 50 per cent as shown by oscillograms in their report. Frequency modulation was not apparent in the photographs and it was noted that side bands of such modulation would be greatly attenuated due to the high Q of the device.

The optimum frequency for their unit was about 1100 megacycles with a disc-diaphragm separation in the order of one mil rather than nine mils as with the Russian unit. No cross-hatching of the disc surface was used which probably caused shorting and audio distortion at high volume levels. This was discounted since they presumed that most uses of the device would be at low volume levels.

The AN/PRR-4 receiver is aperiodic over the frequency range we are interested in, is battery operated, has good sensitivity with frequency rejection and was inferred to be more applicable than the Navy Research Laboratories receiver. Mr. Stiber urged that the Bureau borrow one and try it out.

It was mentioned that Bell Telephone Laboratories had developed a device for modulation of a microwave carrier by changing the physical size of a wave guide section. No capacity effect was used and it did not appear applicable to the immediate Bureau studies.

A short report was shown to Mr. Swartz which had general discussion of the Signal Corps development without much detail. It would be desirable to have a copy which is being requested separately.

Mr. Swartz was very courteously received and a spirit of full cooperation pervaded all discussions. Appreciation of the Bureau was expressed to the men contacted.

RECOMMENDATION:

It is recommended that Liaison Section obtain one AN/PRR-4 receiver through G-2 on a one-month loan basis for experiments in the FBI Laboratory.

12-30-52

COL. RENWANZ, G2,  
WILL FOLLOW THIS

jos.



UNITED STATES DEPARTMENT OF JUSTICE  
FEDERAL BUREAU OF INVESTIGATION

In Reply, Please Refer to  
File No.

American Embassy  
1, Grosvenor Square  
London, W. 1

~~SECRET~~ - AIR COURIER

Mr. Nichols  
Mr. Belmont  
Mr. Clegg  
Mr. Glavin  
Mr. Ladd  
Mr. Rosen  
Mr. Tracy  
Mr. Laughlin  
Mr. Mohr  
Mr. Winterrowd  
Tele. Room  
Mr. Holloman  
Miss Gandy

Date: December 8, 1952

To: Director, FBI

From: Legal Attache  
London, England

Subject: MICROPHONE AND TECHNICAL  
INSTALLATIONS IN U. S.  
EMBASSIES ABROAD  
ESPIONAGE - R

JUNE

ReBulet 11-5-52.

The Bureau is advised that, since [redacted]  
[redacted] visited the Bureau on October 28, 1952, the British Govern-  
ment has formally designated [redacted]

[redacted] stated that, while several agencies [redacted]

With reference to the dissemination of pertinent developments achieved  
locally, [redacted] to the  
Bureau [redacted] In order that [redacted] he suggested  
the Bureau may desire to send whatever information they deem pertinent to [redacted]  
[redacted] The only exception to this would be where the Bureau had  
specific matters they might desire to be taken up directly with [redacted] in which  
case, of course, it would be done through this office.

[redacted] pointed out that the foregoing procedures would be  
[redacted] It having been noted that  
[redacted]  
this office advised [redacted] that, unless contrary advice were received,  
the method he suggested would be agreeable.

RECORDED-20

1105-19581-60

BEC 29 1952

2

1-12-53

JPO:CFJ

*Joe Conrad*

*Lamp*  
*Witt*

105-19581-8

Director, FBI

12-8-52

[redacted] also noted that [redacted]  
regarding all local developments of a technical nature [redacted]  
and that dissemination in the United States [redacted]  
[redacted]

b7D



United States Department of Justice  
Federal Bureau of Investigation  
Washington 25, D. C.

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CLASSIFIED DOCUMENT RECEIPT

I have personally received Copy  
Number 13 of FBI Laboratory Report.  
#PC-34361 AC consisting of 11 pages and  
2 attachments.

John W. Zorn  
Signature

12/16/52 Microphone, And Technical Installations In  
Date The United States Embassies Abroad

105-19581

105-19581-✓  
NOT RECORDED  
13 FEB 2 1953

2-1053  
A

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105-19581-67



Date 7/19/89

**Document Type:** ☐ Letter ☐ Airtel ☒ LHM ☐ Memo ☐ Report  
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☐ Other \_\_\_\_\_ (specify)

Date of Mail *2/2/53*

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## SERIAL CHARGE-OUT



105-19581-74



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Federal Bureau of Investigation  
Washington 25, D. C.

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December 5, 1952

*0* MICROPHONE AND TECHNICAL INSTALLATIONS  
IN THE U.S. EMBASSIES ABROAD

I have personally received this date  
the Great Seal of the United States and the  
Russian resonant cavity microphone which was  
concealed therein.

*Michael O'Leary Jr*  
\_\_\_\_\_  
Signature

*Wm*  
RECORDED - 9 105-195-81-77  
MAR. 4 1953  
*D*